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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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09/964,681

09/27/2001

Ray M. Richardson

INTL-0607-US (P11748)

2831

7590

06/03/2004

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EXAMINER

NGUYEN, MIKE

ART UNIT PAPER NUMBER

2182

DATE MAILED: 06/03/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/964,681

Applicant(s)

RICHARDSON, RAY M.

Examiner

Mike Nguyen

Art Unit

2182

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 20 April 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-30 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-30 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

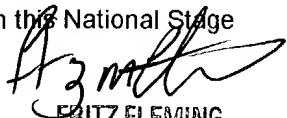
Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.


FRITZ FLEMING
PRIMARY EXAMINER
GROUP 2100

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

Notices & Remarks

1. Claims 1-30 are pending for the examination.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1-4, 6-14, 16-24 and 26-30 are rejected under 35 U.S.C. 102(b) as being anticipated by Higgins (U.S. Pat. No. 5,898,841).

As to claim 21, Higgins teaches a system (see fig. 2) comprising:

a processor (see fig. 2 element 14); and

a storage coupled to said processor storing instructions (see fig. 1 element 15 col. 1 lines 56-67 and fig. 3 col. 3 lines 22-30) that enable the processor to:

initiate a direct memory access (col. 7 lines 22-26; and

successively transfer data from linked buffers in a first processor system to linked buffers in a second processor system (see col. 7 lines 27-46).

As to claim 22, Higgins teaches the system of claim 21 wherein said storage stores instructions that enable the processor to successively transfer data from linked buffers arranged in linked list on a first processor system to buffers arranged in a linked list on a second processor system (see col. 7 lines 1-46).

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As to claim 23, Higgins teaches the system of claim 22 wherein said storage stores instructions that enable the processor to provide descriptors that indicate the status of each of said buffers (see fig. 2 col. 2 line 15 to col. 3 line 20).

As to claim 24, Higgins teaches the system of claim 23 wherein said storage stores instructions that enable the processor to provide flags that indicate whether a buffer is empty or full (see col. 2 lines 46-53).

As to claim 26, Higgins teaches the system of claim 25 wherein said processor is a baseband processor, said system further including a multimedia processor (see fig. 1 elements 10, 11).

As to claim 27, Higgins teaches the system of claim 21 wherein said storage stores instructions that enable the processor to determine the status of a buffer to which data is to be transferred before transferring the data (see col. 6 lines 3-21).

As to claim 28, Higgins teaches the system of claim 27 wherein said storage stores instructions that enable the processor to determine if a buffer from which data is to be transferred is empty and if so, automatically fill the buffer with data (see col. 7 lines 3-26).

As to claim 29, Higgins teaches the system of claim 28 wherein said storage stores instructions that enable the processor to generate an interrupt when a buffer is empty and data is

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to be transferred from the buffer, intercept the interrupt, and automatically fill the buffer (see col. 7 lines 3-46).

As to claim 30, Higgins teaches the system of claim 29 wherein said storage stores instructions that enable the processor to determine whether a buffer that is to receive data is full and if the buffer is full, automatically generate an interrupt, intercept the interrupt, and automatically empty the buffer (see col. 7 lines 3-46).

Claims 1-4 and 6-10 are directed to a method implementing the system as set forth in claims 21-24 and 26-30. Since Higgins teaches the system as set forth in claims 21-24 and 26-30; therefore, he also teaches the method as set forth in claims 1-4 and 6-10.

Claims 11-14 and 16-20 are directed to an article implementing the system as set forth in claims 21-24 and 26-30. Since Higgins teaches the system as set forth in claims 21-24 and 26-30; therefore, he also teaches the article as set forth in claims 11-14 and 16-20.

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 5, 15 and 25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Higgins in view of Sherman et al. (U.S. Pat. No 6,651,111 B2).

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As to claims 5, 15 and 25, Higgins fails to explicitly teach a cellular phone. Sherman; however, teaches transferring data between buffers in the cellular telephone (see fig 4 col. 5 lines 30-63). It would have been obvious to a person of ordinary skill in the art to have buffers in the cellular telephone in order to prevent lost data.

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mike Nguyen whose telephone number is 703 305-5040. The examiner can normally be reached on 8:00AM-4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jeffrey Gaffin can be reached on 703 308-3301. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Mike Nguyen
Patent Examiner
Group Art Unit 2182

05/28/2004


FRITZ FLEMING
PRIMARY EXAMINER
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